



Water Conditions Summary

Operations Control and Technical Support Department Public Works Resource Area

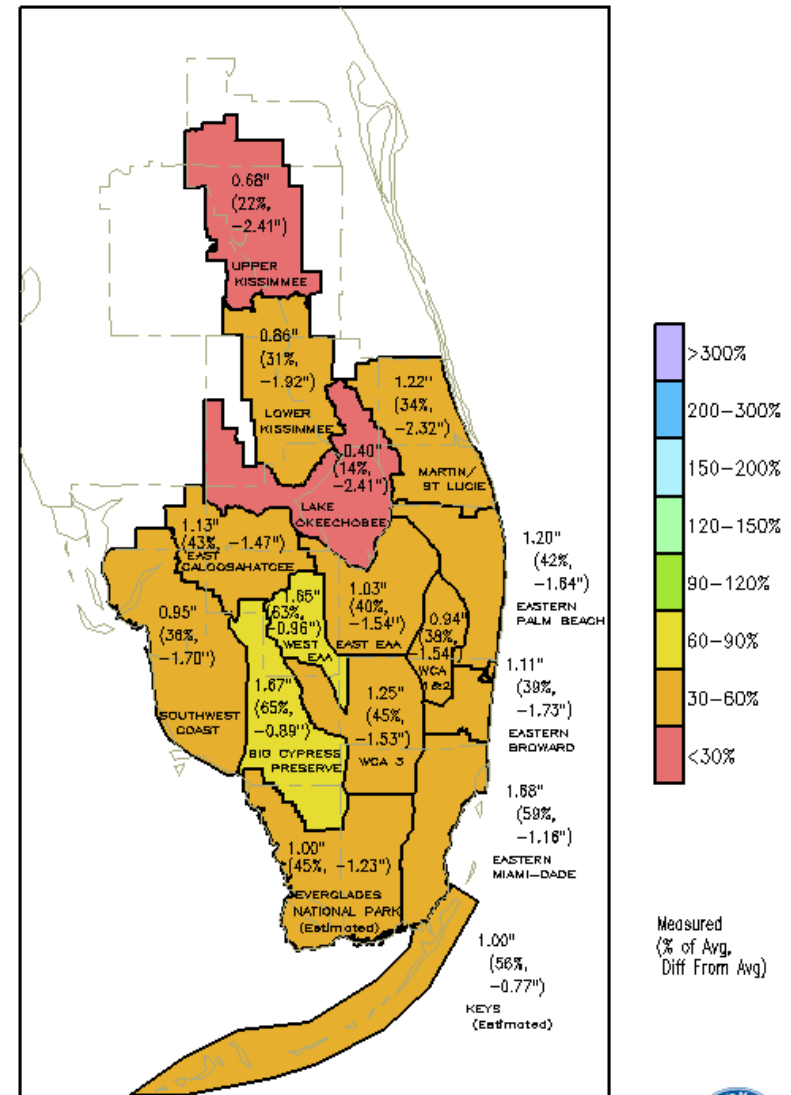
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April 11, 2002

Meteorological Conditions

- **March exhibited well below average rainfall**
 - Dry season through March exhibited below average rainfall: 67% below average
- March Rainfall : District-wide rainfall was 38% of average
 - Normal Rainfall: 2.81 inches
 - Actual Rainfall: 1.07 inches
- April Rainfall : To-date District-wide rainfall is about 64% of average
- Estimated Pan Evaporation: \cong 0.16 inches per day (0.01 ft.)

- March exhibited well below average rainfall over most of the District.

SFWMD Rainfall
02-mar-2002 to 01-apr-2002



DISTRICT-WIDE: 1.08" (38%, -1.73")

GRADS: COLA/ICES

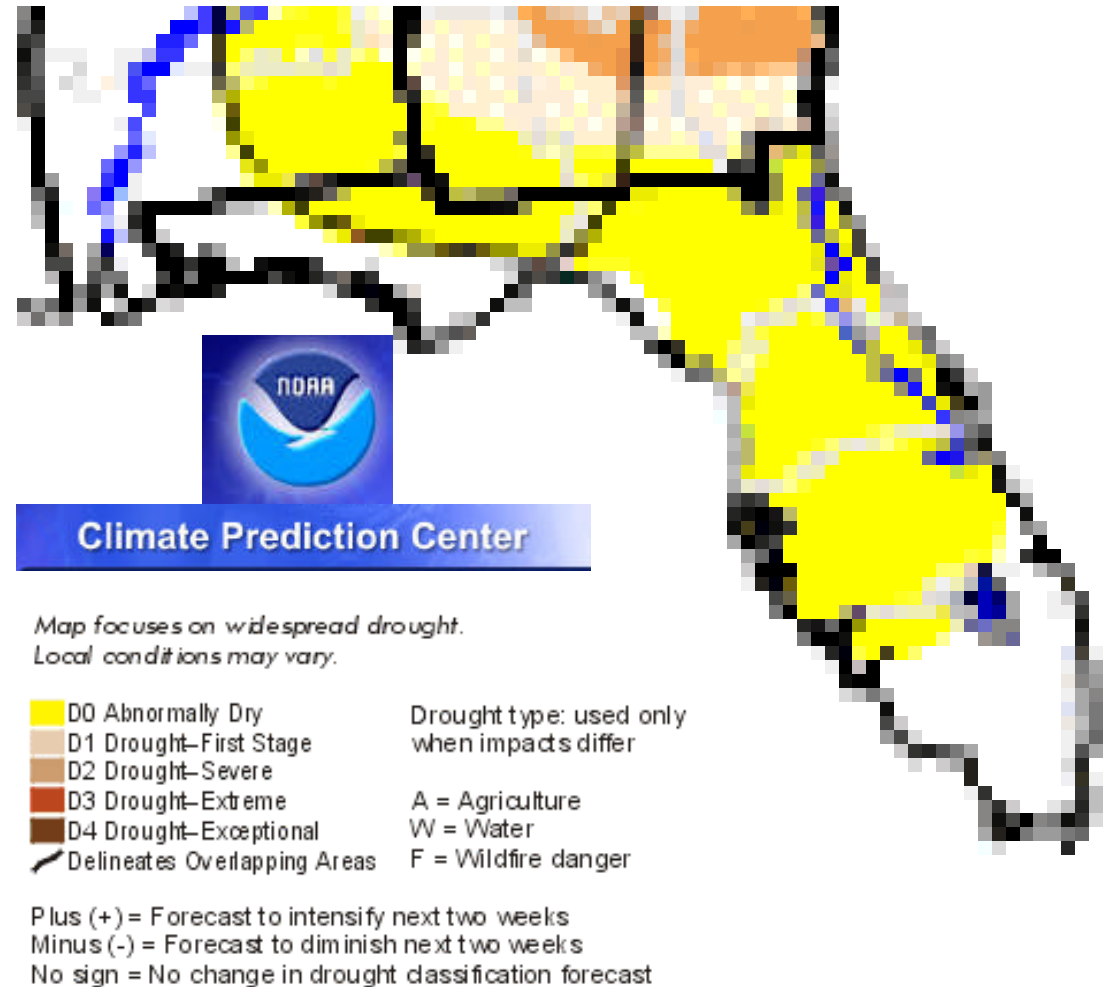
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Climate Conditions

Drought Outlook

- Abnormally dry hydrologic conditions are indicated across northern portion of District in the latest CPC drought outlook



General Hydrologic Conditions

-  **Upper Chain** - Normal seasonal levels
-  **Kissimmee River** - Normal seasonal levels
-  **Lake Okeechobee** - Near normal levels
-  **Lake Okeechobee Agriculture** - No short-term water supply concerns
-  **Estuaries** - Mod. salinity in Caloosahatchee

General Hydrologic Conditions

 **Water Conservation Area 1** - >Norm. Stages

 **Water Conservation Area 2** - >Norm. Stages

 **Water Conservation Area 3** - >Norm. Stages

 **ENP** - Normal seasonal conditions

 **Fl. Bay** - Normal seasonal conditions

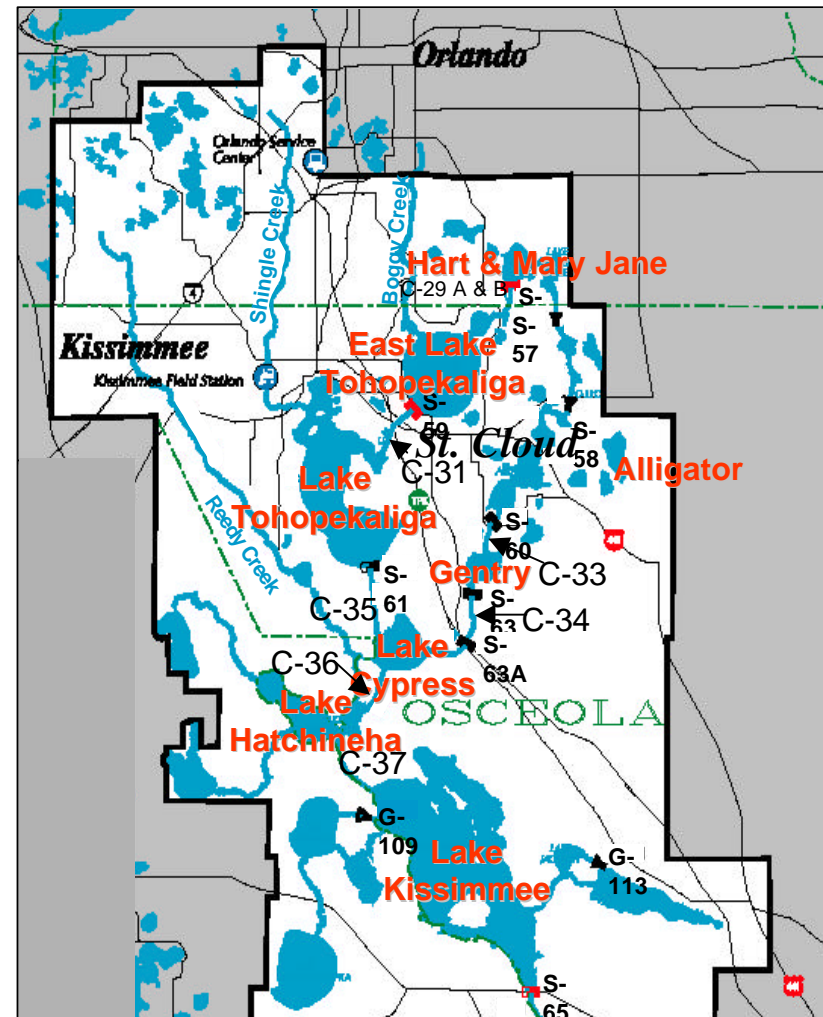
 **Upper East Coast** - Low canal levels

 **Lower East Coast** - Normal levels

 **Lower West Coast** - Normal levels

Hydrologic Conditions Upper Kissimmee Basins

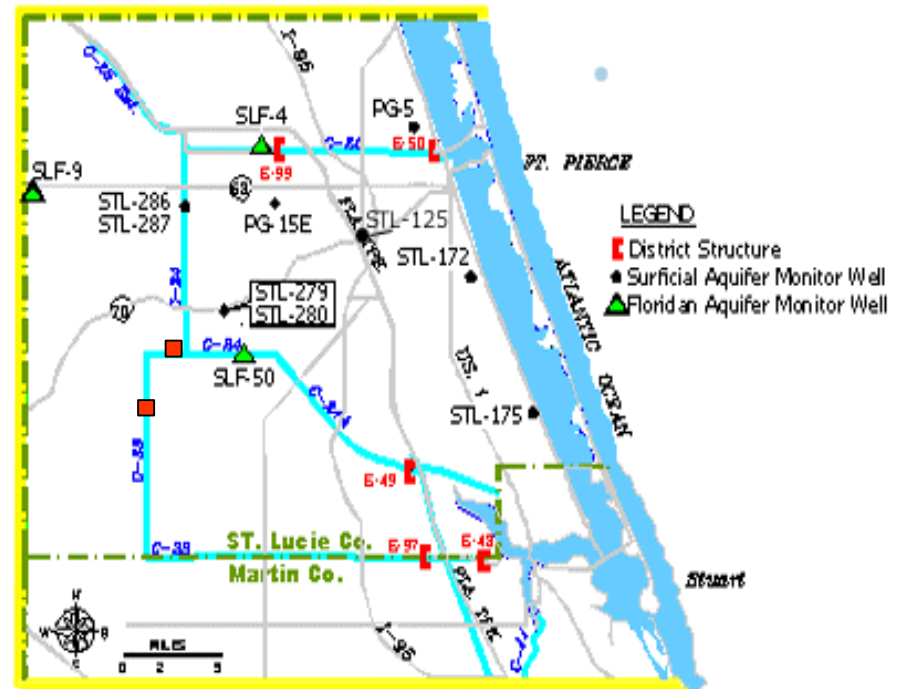
- All lakes are between 0.25 and 1 ft. below their high pool stages
- Minor environmental releases (~500 cfs) from Lake Kissimmee continue in accordance with the interim restoration schedule
- Maintaining Lake Tohopekaliga stages to facilitate ongoing hydrilla treatment activities



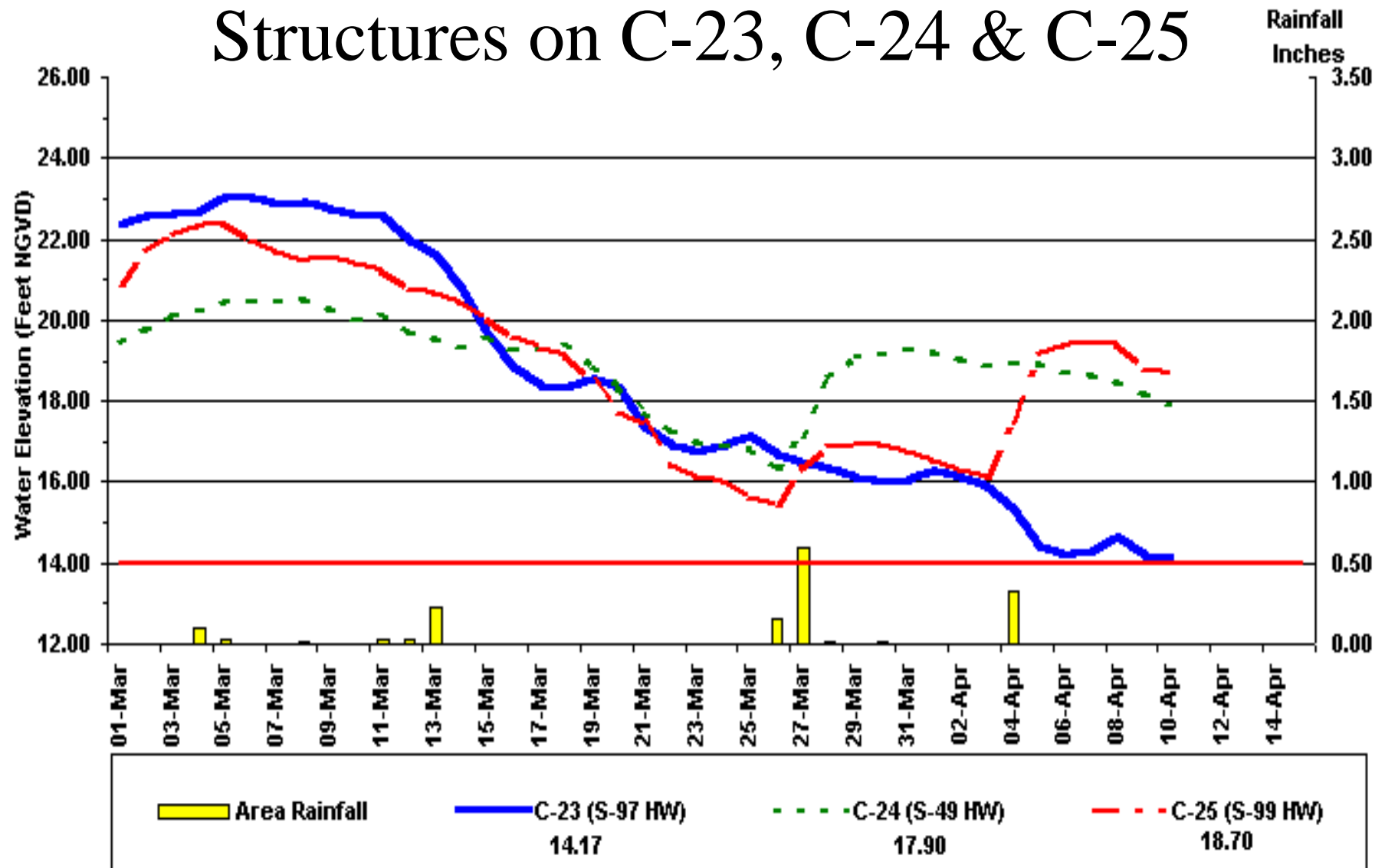
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Upper East Coast

- Water levels in the C-23, C-24 & C-25 canals have continued to decline over the past few months
 - Stages below 14 ft. trigger irrigation restrictions
- Stages in C-23 have recently fallen below the minimum stage
- typical dry season rain could significantly improve the situation



Upper East Coast Structures on C-23, C-24 & C-25



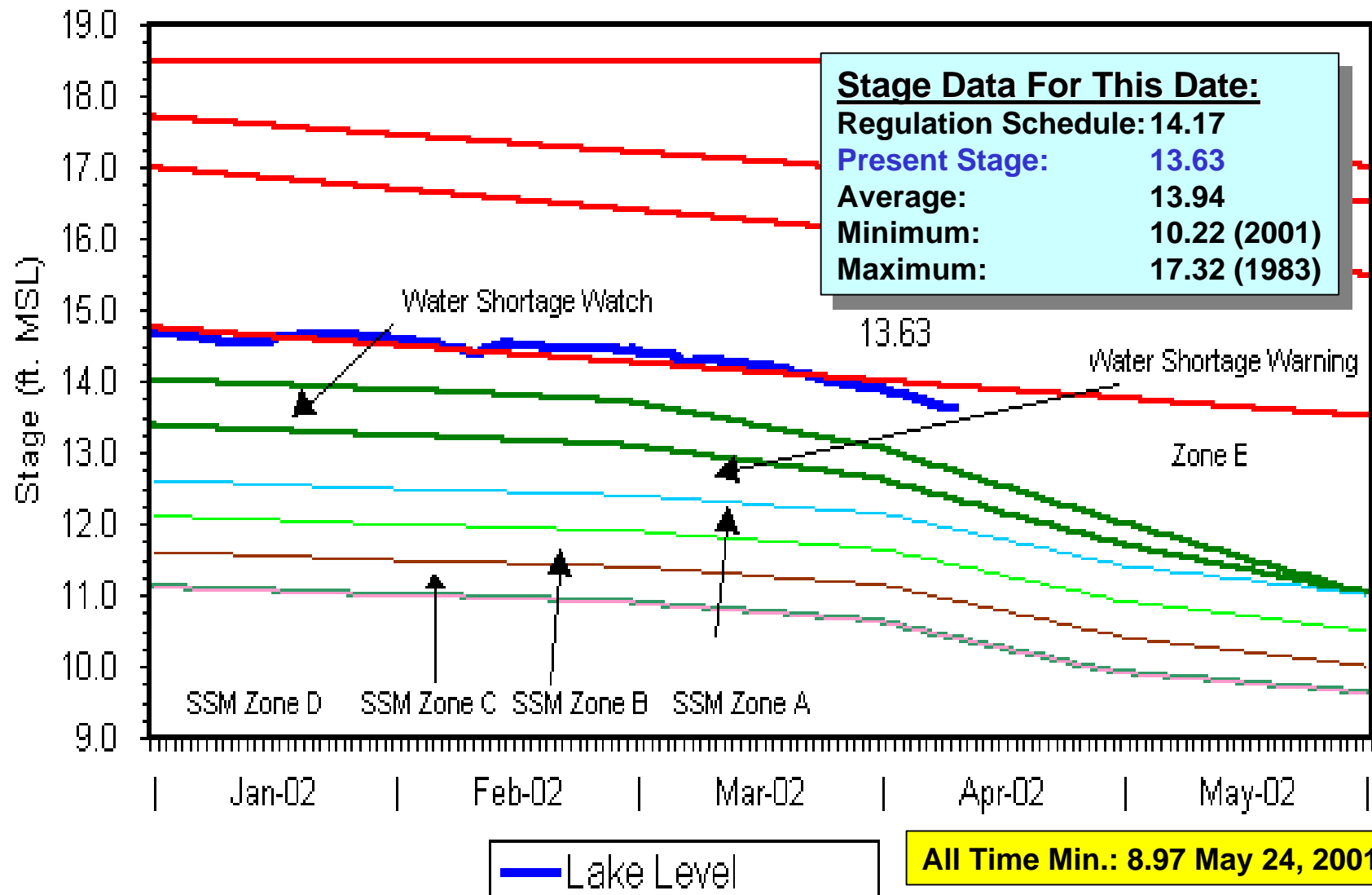
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Hydrologic Conditions Lake Okeechobee

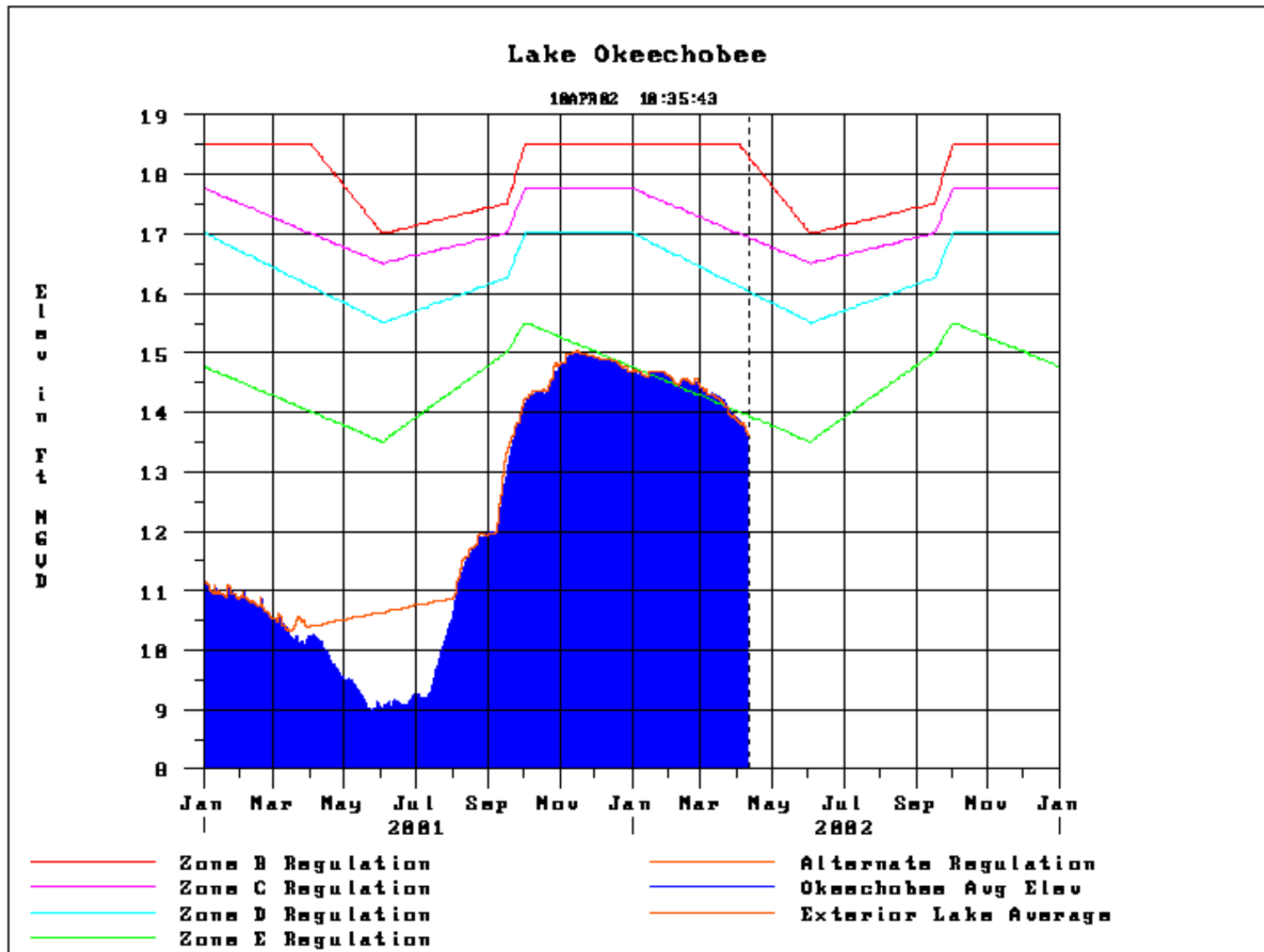
- Lake Okeechobee stages continue to recede in response to below average dry season rainfall
 - Water supply releases are increasing to meet increased demand
- Stages fell below the Regulation Schedule (WSE) in the latter part of March

Lake Okeechobee

Published 04/10/2002



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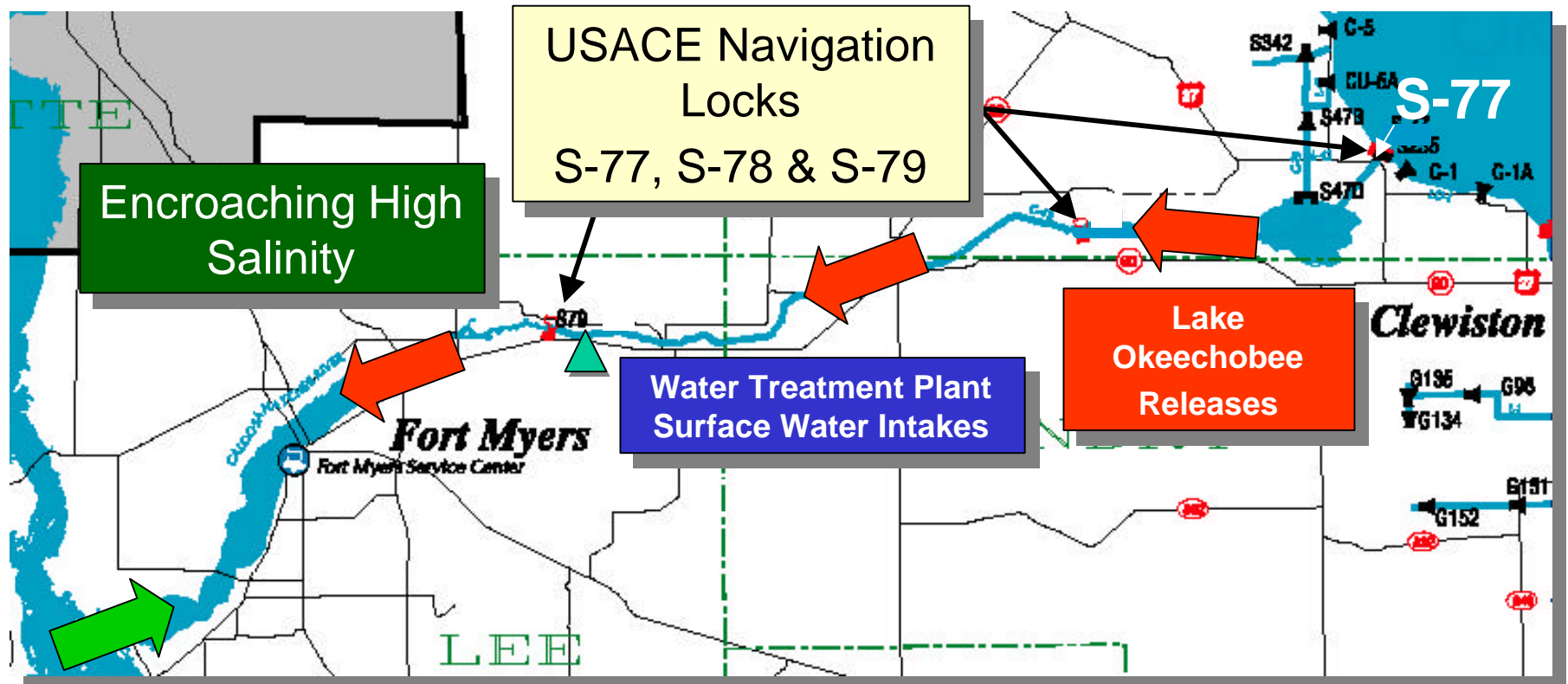
Lake Okeechobee

Current Operations

- **Lake Okeechobee Regulation Schedule (WSE)**
 - Stages presently in Zone E
 - Below normal Kissimmee River inflows
 - Below normal rainfall
 - Dry seasonal forecast
 - Normal multi-seasonal forecast
- No required discharge to the WCAs
- No required discharge to estuaries



Caloosahatchee River



- In periods of low flow, salt water intrusion threatens aquatic grass beds and public water systems of Lee Co. and Ft. Myers
- Current weather and hydrologic conditions remain favorable to allow periodic low volume environmental releases from Lake Okeechobee with the goal of maintaining favorable salinity concentrations in the lower estuary

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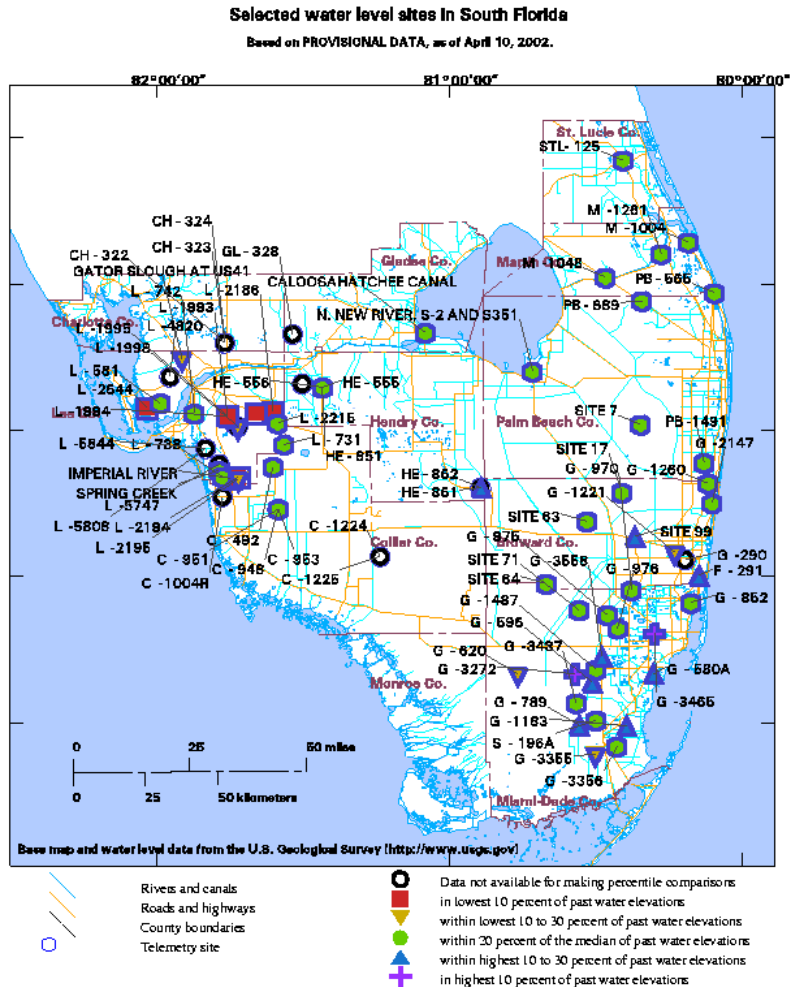
Caloosahatchee Environmental Water Deliveries

- Small releases were initiated in mid-December to moderate high salinity
- Avg. Flow Rate over the past 4 months:
~300 to 1,200 cfs
- To-date approximately 105,900 ac-ft of water has been released from Lake Okeechobee to the estuary
 - 34.5 billion gallons
 - 0.26 ft. of equivalent lake depth

Hydrologic Conditions

Groundwater Conditions

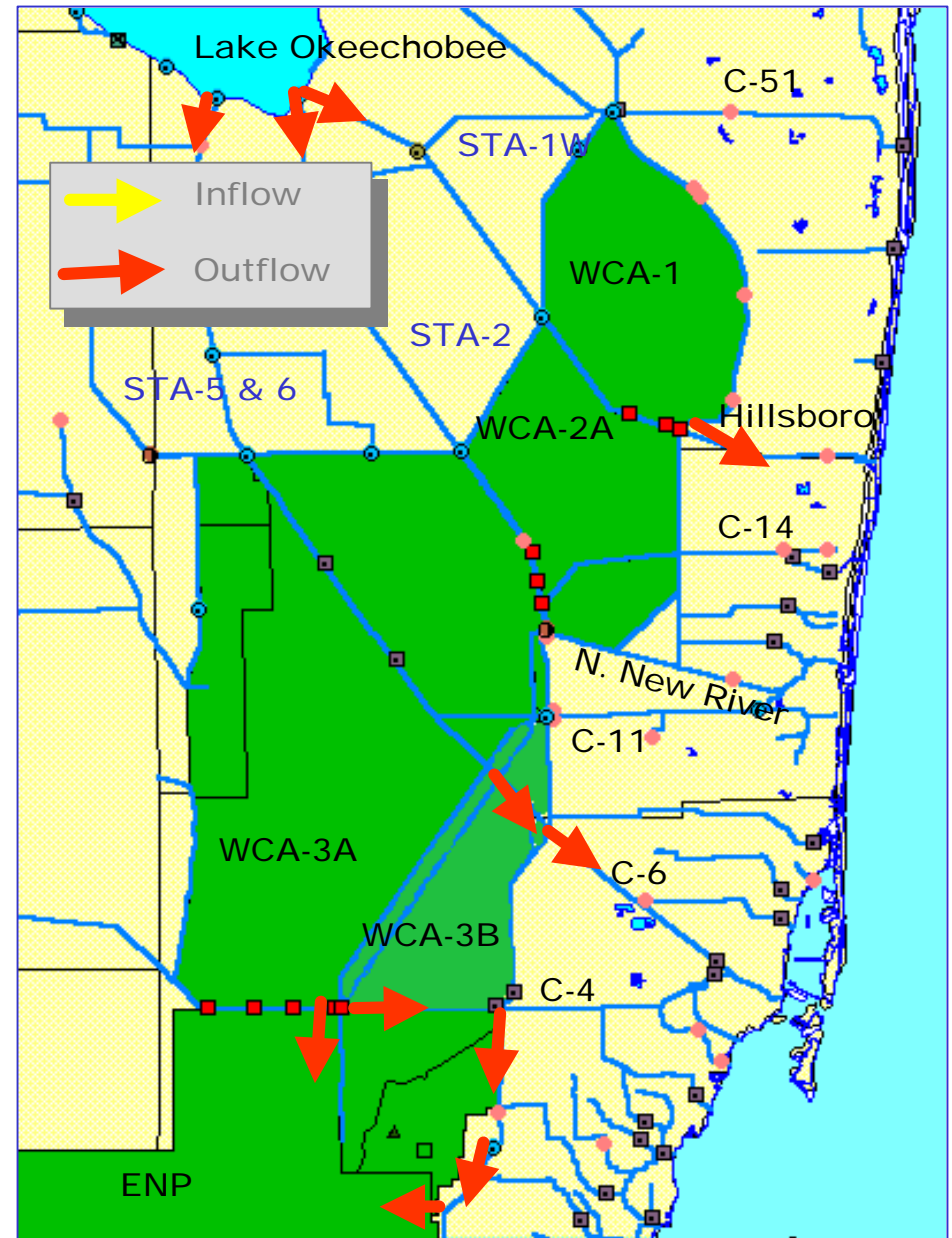
- Upper & Lower East Coast Regions: Normal
- Lower West Coast Region: Near normal and falling



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Water Conservation Areas

- All Water Conservation Areas are at or below their respective regulation schedules and receding
- Releases are being made to meet water supply demands



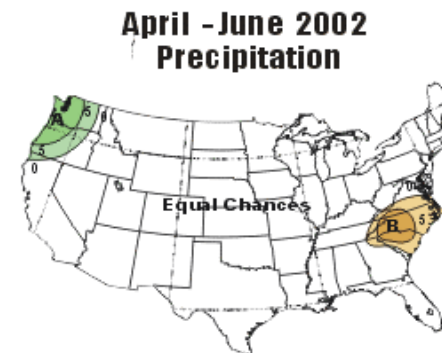
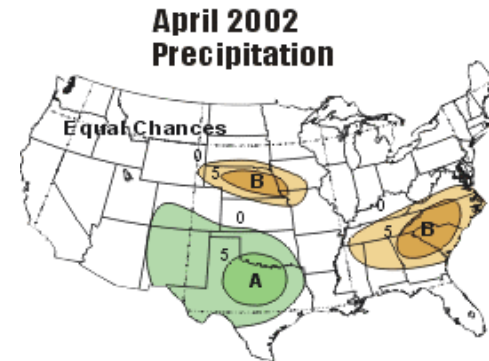
Hydrologic Conditions

SDCS - ISOP 2001 Current Operations

- ISOP 2001 criteria continues to be followed and closely coordinated with the USACE.
- WCA-3A regulatory releases terminated since stages have fallen below schedule
 - Operations are currently transitioning from Regulatory to Water Supply conditions

Seasonal Climatic Outlook

- CPC reports that the period from March to May 2002 has no increased probability for either above or below average precipitation



Release Date: March 14, 2002

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Seasonal Outlook

Precipitation

Release Date: March 14, 2002

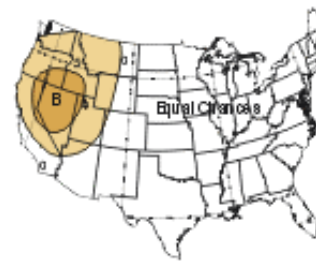
May - July 2002



June - August 2002



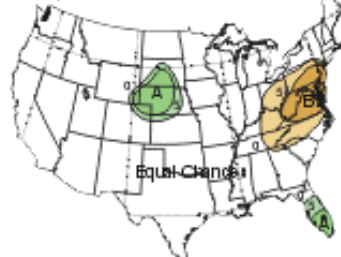
July - September 2002



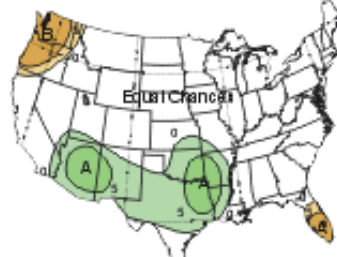
August - October 2002



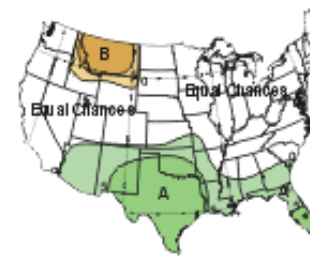
September - November 2002



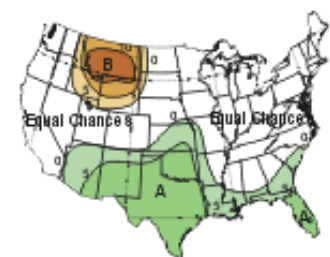
October - December 2002



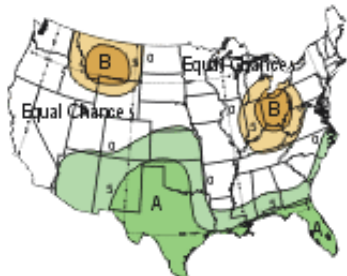
November 2002 - January 2003



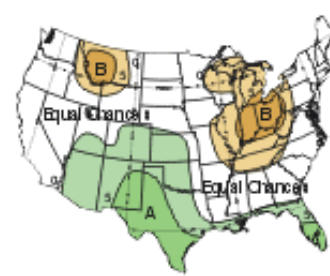
December 2002 - February 2003



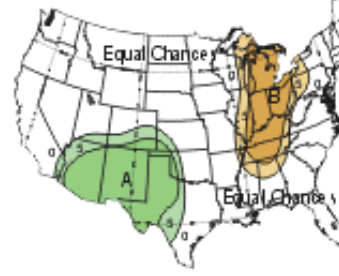
January - March 2003



February - April 2003



March - May 2003



April - June 2003



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Drought Outlook

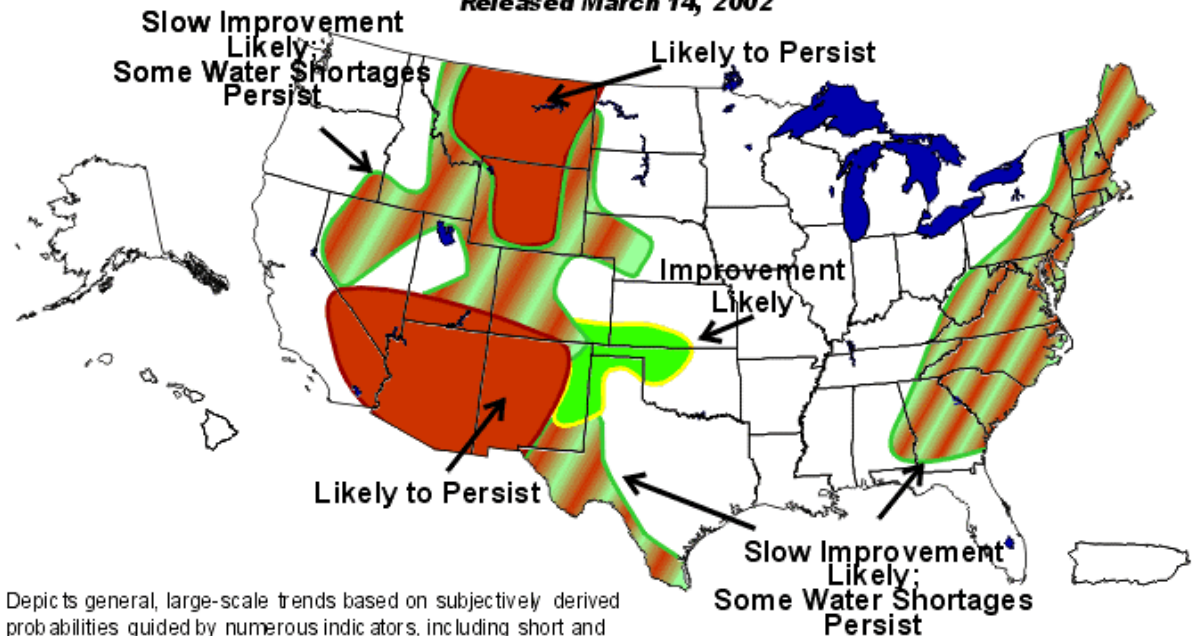
- No drought conditions expected through at least June 2002



Seasonal U. S. Drought Outlook

Through June 2002

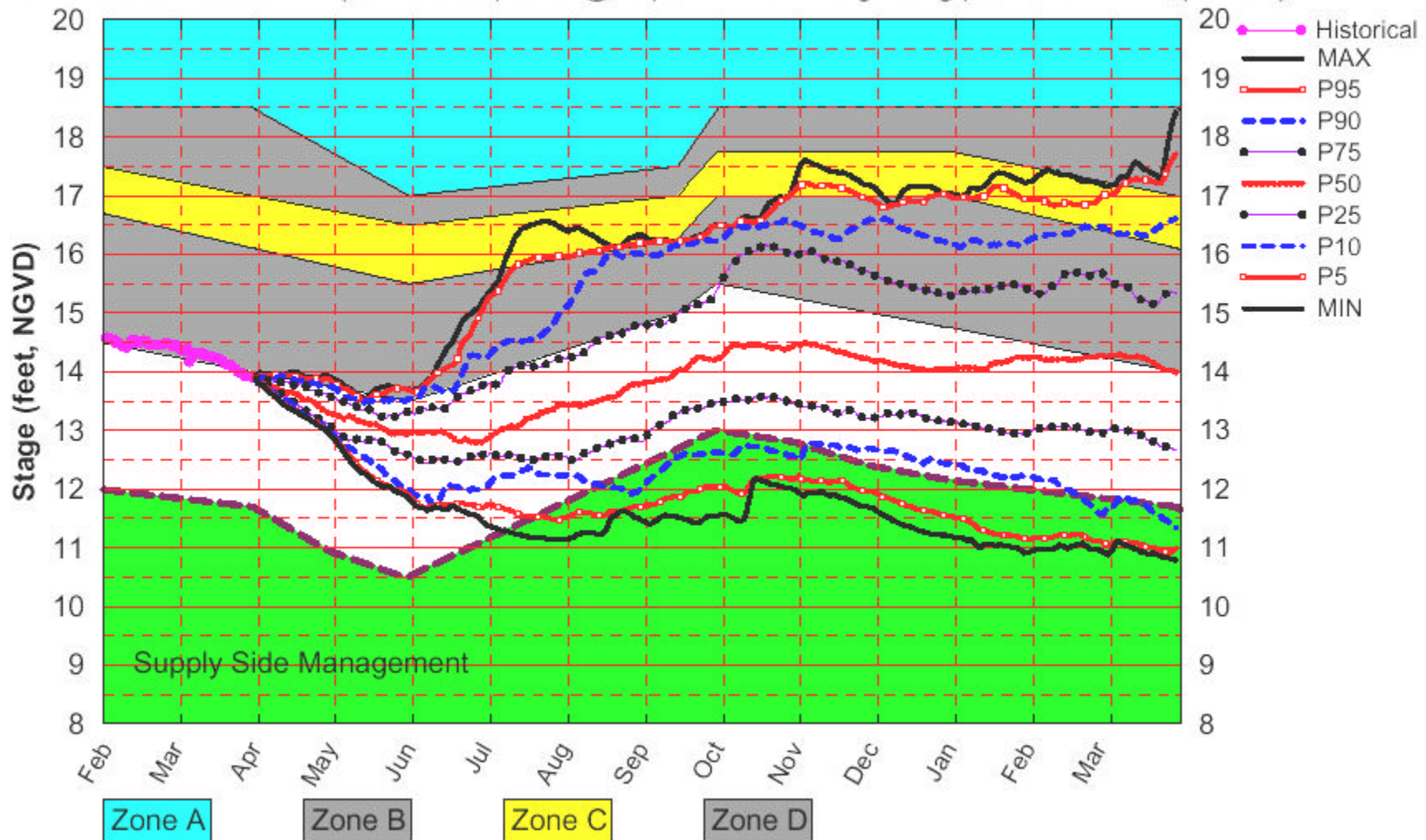
Released March 14, 2002



Depicts general, large-scale trends based on subjectively derived probabilities guided by numerous indicators, including short and long-range statistical and dynamical forecasts. Short-term events—such as individual storms—cannot be accurately forecast more than a few days in advance, so use caution if using this outlook for applications—such as crops—that can be affected by such events. Initial drought areas—shown schematically—are approximated from the Drought Monitor. For weekly updates on drought, see the latest Drought Monitor map and text.

Lake Okeechobee SFWMM Apr 2002 Position Analysis

NOEST Unconditional PA (See assumptions @ http://www.sfwmd.gov/org/pld/hsm/sfwmm_pa.html)



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Operational Issues

- Lake Okeechobee freshwater releases to the Caloosahatchee Estuary
- Upper East Coast Surface Water Use Restrictions